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(21) International Application Number: PCT/US99/03692 (22) International Filing Date: 19 February 1999 (19.02.99) (30) Priority Data: 60/075,466 20 February 1998 (20.02.98) US (71) Applicant: GENOME DYNAMICS, INC. [US/US]; 18247D Flower Hill Way, Gaithersburg, MD 20879-0921 (US). (72) Inventors: MICHAELS, George, S.; 13516 Sloan Street, Rockville, MD 20853 (US). MIKELSAAR, Raik-Hiio; Jakobsoni Street 11-4, EE2400 Tartu (EE). FELDMANN, Richard, J.; 17800 Mill Creek Drive, Derwood, MD 20855-1019 (US). (74) Agents: DRIVAS, Dimitrios, T. et al.; White & Case LLP, 1155 Avenue of the Americas, New York, NY 10036 (US).		(81) Designated States: AU, BR, BY, CA, CN, CZ, HU, IL, IN, JP, KR, MX, NZ, PL, RU, SK, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims</i> <i>and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 21 October 1999 (21.10.99)
(54) Title: METHOD FOR DESIGNING DNA-BINDING PROTEINS OF THE ZINC-FINGER CLASS (57) Abstract The invention is directed to the design of DNA-binding proteins (DBP's) with capabilities of binding to any predetermined target double-stranded DNA sequence. Disclosed are the rules for design of the proteins; an algorithm for screening for the optimal DBP's; a computer system employing the rules and the algorithm; general formulae encompassing the proteins; and methods of use of the proteins.		

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INTERNATIONAL SEARCH REPORT

International Application No
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A. CLASSIFICATION OF SUBJECT MATTER IPC 6 C07K1/00 C07K14/47 G06F17/50 C07K14/00		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 6 C07K G06F		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 96 32475 A (UNIV WASHINGTON ;CHENG CHENG (CA)) 17 October 1996 (1996-10-17) the whole document ---	1-14
A	WO 90 07862 A (PROTEIN ENG CORP) 26 July 1990 (1990-07-26) the whole document ---	1-14
A	BERG E.A.: "Proposed dtructure for the zinc-binding domains from transcription factor IIIA and related proteins" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, vol. 85, January 1988 (1988-01), pages 99-102, XP002112926 WASHINGTON US cited in the application the whole document ---	1-14
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
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Date of the actual completion of the international search <div style="text-align: center; font-weight: bold;">23 August 1999</div>		Date of mailing of the international search report <div style="text-align: center; font-weight: bold;">02/09/1999</div>
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer <div style="text-align: center; font-weight: bold;">Groenendijk, M</div>

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
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Information on patent family members

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